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EGYPTIAN MISSILE IDENTIFIED BY U.S.

Soviet-Made Naval Weapon Called Styx Has No Real Equivalent in West

> By NEIL SHEEHAN Special to The New York Times

WASHINGTON, Oct. 23-The missiles employed by the Egyptians to sink the Israeli destroyer Elath on Saturday were apparently the Sovietmade ship-to-ship type called the Styx by the Western allies.

No real equivalent of this missile exists in the United States Navy or other Western navies. The Styx and more advanced Soviet ship-to-ship missiles have been considered a potential threat since they first came to the attention of the United States Navy during the Cuban blockade of 1962.

There has been concern that the Russians might provide these missiles to the North Vietnamese for use against the Seventh Fleet in the Gulf of Tonkin. Moscow has apparently not yet supplied Hanoi with these missiles.

However, China posseses an early and less effective version of the Styx and, for this reason, the movements of Chinese guided-missile patrol boats in the Gulf of Tonkin are kept under continual surveillance.

The Styx is a subsonic cruis€ missile with a 1,000-pound high explosive warhead and a range of 20 to 25 miles.

The Styx is also capable of carrying a nuclear warhead, bu it is believed that the Sovie Union has not provided the Egyptians with any nuclea devices.

About 20 feet long and shaped like an airplane with stubby delta wings and three

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tail fins to provide stabiliza-1959.

the Soviet Union. Cuba was The standard Styx homing provided with 12 such craft device is reported to be a radar the same year.

fast 75-ton attack craft with a cumstances of Saturday's inci-

Egypt may also have been devices.
given, over the past year, a
few larger 160-ton Osa-class the first missile struck amiders each.

in Saturday's incident the mis-destroyer. siles may have been fired from

No evidence exists here that the missiles were fired by Soviet advisers to the Egzptian navy. Naval observers do not consider the Styx a complicated missile to operate and cated missile to operate and they believe the Egyptians would have had ample time over the last five years to learn to fire it.

Technical Role Seen

But Soviet technicians may have played a key role in keep-ing the missiles in working order since the Egyptians have displayed consistent weakness in this area when left to themselves.

To fire the Styx, the crew of the patrol craft first detects and fixes the general position of the opposing vessel on the patrol craft's radar. This can be done either while the patrol craft is stationary or while it is moving toward the target.

The crewmen then set the missile's autopilot on a course toward the target. A jettison-able, solid-propellent rocket motor slung under the rear fuselage of the Styx is fired

and the missile roars off the launcher,

As soon as the missile gains speed and altitude, this rocket motor is automatically dropped into the sea, the missile's own rocket motor takes over and he autopilot guides the Styx towards the target.

When the Styx gets close tion. The Styx became opera- to the target a homing device tional in the Soviet navy in within the missile detects the opposing ship, assumes control The Egyptian navy acquired the missiles in 1962 when it was given three Komar-class guided-missile patrol boats by tion.

type. Some trained observers The Komar-class vessels are have speculated from the cirtop speed of 40 knots. They dent that the missiles used by carry two launchers for Styx the Egyptians may have been milles on the aft section behind the engine.

The Israeli crew reported that boats with four Styx launch-ships and the second smashed into the engine room, the great-There is some indication that est source of heat aboard the

The American Talos-Terrier a stationary position within and Tartar ship-to-air missiles Port Said harbor. have a limited ship-to-ship ca-